

Strand: Numbers and Operations

Name: _____

Skill Addressed: Understanding Multiplication

Blk: ____

Activity: *Movin' On to Algebra – The Meaning of FOIL*

Now, if the large blue squares are (x by x), the yellow rods are (x by 1) and the little green squares are (1 by 1), explain how this diagram shows the multiplication of:

$$(x + 3)(2x + 5)$$

Use FOIL to multiply these numbers: (Firsts, Outsides, Insides, Lasts)

$$= \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad}$$

Can you find these four products on the diagram to the right?

Explain why this happens:

How is this question like the one on the previous page? Why are the diagrams the same? _____

